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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,472	06/30/2003	Jae-Yong Park	041993-5224	7875

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EXAMINER

QUARTERMAN, KEVIN J

ART UNIT	PAPER NUMBER
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2879

DATE MAILED: 09/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<p align="center">Office Action Summary</p>	<p>Application No.</p> <p align="center">10/608,472</p>	<p>Applicant(s)</p> <p align="center">PARK, JAE-YONG</p>	
	<p>Examiner</p> <p align="center">Kevin Quarterman</p>	<p>Art Unit</p> <p align="center">2879</p>	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-13 is/are pending in the application.
- 4a) Of the above claim(s) 9-13 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☒ Claim(s) 1 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group I, claims 1-8, in the reply filed on 28 July 2004 is acknowledged.

Specification

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
3. The following title is suggested: --ORGANIC ELECTROLUMINESCENT DISPLAY DEVICE WITH CONTACT HOLE WITHIN INSULATING LAYER--.

Claim Objections

4. Claim 1 is objected to because of the following informalities: In the last two lines, The claim cites "an insulating exposing a part of the ground line such that the second electrode is directly connected to the second electrode." It appears to the Examiner that the claim should state that the second electrode is directly connected to the ground line, since it is unclear how the second electrode would be directly connected to itself.
5. The abstract of the disclosure is objected to for similar reasons. Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 2879

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1-3 and 6-8 dw 9/1/04

7. Claims ~~1-3~~ are rejected under 35 U.S.C. 102(e) as being anticipated by Kondo

(US 6525704).

8. Regarding independent claim 1, Figure 5 of Kondo shows an organic electroluminescent display device comprising a substrate (30) composed of an array unit and a ground unit; an organic luminescent unit in the array unit and having an organic emitter layer (43), a first electrode (41), and a second electrode (45); a ground line (14) in the ground unit and contacted to the second electrode of the organic luminescent unit; and an insulating layer (36) exposing a part of the ground line such that the second electrode is directly connected to the ground line.

9. Regarding claim 2, Kondo discloses that the first electrode is an anode electrode (col. 7, ln. 67).

10. Regarding claim 3, Kondo discloses that the second electrode is a cathode electrode (col. 8, ln. 3).

11. Regarding claim 6, Figure 5 of Kondo shows the second electrode contacted to the ground line through a ground contact hole formed at the ground line.

12. Regarding claim 7, Figure 9 of Kondo shows a thin film transistor (15) and a capacitor (62) in the array unit.

13. Regarding claim 8, Figure 5 of Kondo shows the thin film transistor comprising an active layer (31) including source/drain regions and a channel region formed at a middle

Art Unit: 2879

part thereof; a gate electrode (33); and source (34) and drain (35) electrodes respectively connected to the source and drain regions.

Claim Rejections - 35 USC § 103

14. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

15. Claims 4-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (US 6525704) in view of Fujita (US 6758538).

16. Regarding claim 4, Kondo teaches the limitations of independent claim 1, as discussed earlier. Figure 5 of Kondo also shows an electron transport layer (44), an emitting layer (43), and a hole transport layer (42). Kondo fails to exemplify a hole injection layer.

17. Fujita teaches that it is known in the art to provide organic emitting layer of an organic electroluminescent display with an additional hole injection layer for injecting charges from an electrode (col. 5, ln. 61-62).

18. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the organic emitting layer of Kondo with a hole injection layer, as taught by Fujita, for transporting charges between the electrodes for emitting light.

19. Regarding claim 5, Fujita discloses an insulating layer formed of at least one of LiF and LiO₂ (col. 7, ln. 14-15).

Art Unit: 2879

Contact Information

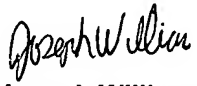
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Quarterman whose telephone number is (571) 272-2461. The examiner can normally be reached on M-TH (7-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin Quarterman
Examiner
Art Unit 2879

kq 
31 August 2004


Joseph Williams
Primary Examiner
Art Unit 2879